

First Named Inventor	Larry G. Fischer	REQUEST TO CORRECT INVENTORSHIP UNDER 37 CFR § 1.48(a)
Serial No.	09/747,273	
Filing Date	12/22/2000	
Group Art Unit	2680	
Examiner Name	Corsaro, Nick	
Attorney Docket No.	100.047USR4	
Title: CELLULAR COMMUNICATIONS SYSTEM WITH SECTORIZATION		

Commissioner for Patents
Washington, D.C. 20231

Applicant respectfully requests that the inventorship of the above-identified patent application be corrected to add the following individual as an inventor:

Jeffrey O. Brennan
521-11th Avenue NW
Waseca, MN 56093
Citizen of USA

Jeffrey O. Brennan was inadvertently not included as an inventor when the present reissue application was filed on December 22, 2000. Subsequent to the addition of this inventor, the record should show the following five individuals as joint inventors: Larry G. Fischer, David S. Russell, Philip M. Wala, Charles R. Ratliff, and Jeffrey O. Brennan.

Per 37 CFR § 1.48(a) also included with this request for correction is a statement from Jeffrey O. Brennan that the error in inventorship occurred without deceptive intention on his part, a new Reissue Application Declaration by the Inventors, a Supplemental Declaration for Reissue Application to Correct "Errors" Statement (37 CFR 1.175) by the actual inventors, a check for \$130.00 as required under 37 CFR § 1.17(i), and the written consent of the assignee.

04/06/2006 SFELEKE1 00000071 09747273

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REQUEST TO CORRECT INVENTORSHIP**PAGE 2**

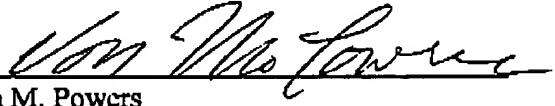
Serial No. 09/747,273

Attorney Docket No. 100.0047USR4

Title: CELLULAR COMMUNICATIONS SYSTEM WITH SECTORIZATION

The undersigned patent attorney respectfully submits that the error arose without any deceptive intention on the part of the person, who through error was not named as an inventor. Therefore, correction of the inventorship is appropriate under 37 CFR §1.48(a). A favorable response to this request is respectfully requested. If a telephone conference would be of assistance, please Jon M. Powers at (612) 455-1681.

Respectfully submitted,

Date: 4-5-2006
Jon M. Powers
Reg. No. 43,868

Attorneys for Applicant
Fogg & Associates, LLC
P.O. Box 581339
Minneapolis, MN 55458-1339
T - 612/332-4720
F - 612/332-4731

First Named Inventor	Larry G. Fischer	CONSENT OF ASSIGNEE TO CORRECT INVENTORSHIP UNDER 37 CFR § 1.48(a)
Serial No.	09/747,273	
Filing Date	12/22/2000	
Group Art Unit	2680	
Examiner Name	Corsaro, Nick	
Attorney Docket No.	100.047USR4	
Title: CELLULAR COMMUNICATIONS SYSTEM WITH SECTORIZATION		

Commissioner for Patents
Washington, D.C. 20231

ADC Telecommunications, Inc. of 13625 Technology Drive, Eden Prairie, MN 55344-2252, being the sole owner of the above-identified application, as evidenced by the Assignment recorded in the U.S. Patent Office at Reel 7058, Frame 0199, hereby consents to the change of inventorship in the above-identified patent application from the joint inventorship of Larry G. Fischer, David S. Russell, Philip M. Wala, and Charles R. Ratliff, to the joint inventorship of Larry G. Fischer, David S. Russell, Philip M. Wala, Charles R. Ratliff, and Jeffrey O. Brennan.

I declare that I am an official of the Assignee and am empowered to authorize this consent.

Date: 3-5-2006

By: 
Mike Ouyang
 Typed or Printed Name

Chief Intellectual Property Counsel
 Title

First Named Inventor	Larry G. Fischer
Serial No.	09/747,273
Filing Date	12/22/2000
Group Art Unit	2680
Examiner Name	Corsaro, Nick
Attorney Docket No.	100.047USR4

**STATEMENT IN
SUPPORT OF A
REQUEST TO CORRECT
INVENTORSHIP UNDER
37 CFR § 1.48(a)**

Title: CELLULAR COMMUNICATIONS SYSTEM WITH SECTORIZATION

**STATEMENT OF JEFFREY O. BRENNAN IN SUPPORT OF A REQUEST TO
CORRECT INVENTORSHIP UNDER 37 CFR §1.48(a)**

Commissioner for Patents
Washington, D.C. 20231

I, Jeffrey O. Brennan, make this statement pursuant to 37 CFR § 1.48(a) to correct the inventorship of the invention claimed in the above-identified patent application, U.S. application serial No. 09/747,273.

At the time of filing, my name was erroneously omitted as an inventor. Moreover, this error in inventorship was made without deceptive intent on my part. Therefore, I am currently an inventor of the present application and request correction of inventorship to include me as an inventor on this application.

Date: 4 3 06


Jeffrey O. Brennan

APR-05-2006(WED) 13:33 FOGG AND ASSOCIATES, LLC
RX Date/Time MAR-13-2006(MON) 13:13
Mar 13 06 12:38p Marian Fischer

(FAX)612 332 4731
507 835 8730
507 835 8730

P. 014/038
P. 004
p. 4

PTO/ED-51 (10-00)

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REISSUE APPLICATION DECLARATION BY THE INVENTORS

Docket Number (optional)

100-047USR4

As a below named inventors, we hereby declare that:

Our residences, post office addresses and citizenships are stated below next to our names.
We believe we are the original, first and joint inventors of the subject matter which is described and claimed
in patent number 5,852,651, granted December 22, 1998, and for which a
reissue patent is sought of the invention entitled

CELLULAR COMMUNICATIONS SYSTEM WITH SECTORIZATION

the specification of which

is attached hereto.

was filed on December 22, 2000 as reissue application number 09/747,273
and was amended on _____
(if applicable)

We have reviewed and understand the contents of the above identified specification, including the claims, as
amended by any amendment referred to above.

We acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56.
We verify believe the original patent to be wholly or partly inoperative or invalid, for the reasons described
below. (Check all boxes that apply.)

by reason of a defective specification or drawing.

by reason of the patentee claiming more or less than he had the right to claim in the patent.

by reason of other errors.

At least one error upon which reissue is based is described below. If the reissue is a broadening
reissue, such must be stated with an explanation as to the nature of the broadening:

This reissue application is based on an error that the applicant and applicant's attorney failed to appreciate the full
scope of the invention and thus claimed less subject matter than could have been claimed. The issued claims
contain limitations that are not essential for practicing the broad teachings of the invention disclosed in the
application. Thus, this reissue application is intended as a broadening reissue.

In one example of this error, Applicant failed to fully claim the manner in which RF signals are digitized and
transmitted from a base station to a remote unit in the system. This error is demonstrated by comments made by
an Examiner in a related application sharing the same specification. The Examiner indicated that:

the prior art fails to teach the combining of analog telephone signals prior to digitization of the
signals for transmission over a digital transport link between a base station and remote
antenna sites. (See, Notice of Allowance dated 10/17/1996 in US Serial No. 08/410,129).

However, in this related application, applicant failed to claim all the subject matter indicated by the Examiner as
allowable. Thus, claims have been included in this reissue application that are directed to aspects of the
digitization of signals for transmission between the base station and the remote unit.

APR-05-2006(WED) 13:34 FOGG AND ASSOCIATES, LLC
Tx Date/Time MAR-13-2006(MUN) 13:13
Mar 13 06 12:39p Marian Fischer

(FAX)612 332 4731
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P. 015/038
P. 005
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(REISSUE APPLICATION DECLARATION BY THE INVENTOR, page 2)

Docket Number (Optional)
100.047USR4

All errors corrected in this reissue application arose without any deceptive intention on the part of the applicant. As a named inventor, we hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith.

Name	Registration	Name	Registration
Fogg, David N.	35,138		
Powers, Jon M.	43,868		
Lundberg, Scott V.	41,958		
Moura, Richard J.	34,883		
Kendrick, J. Patrick	53,109		

Correspondence Address: Direct all communications about the application to:

<input checked="" type="checkbox"/> Customer Number	34206	Customer Number
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Firm or Individual Name
Jon M. Powers
Fogg and Associates, LLC

Address P.O. Box 581339

City Minneapolis State Minnesota Zip 55458-1339
Country USA Telephone 612/332-4720 Fax 612/332-4731

We hereby declare that all statements made herein of our own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine and imprisonment, or both, under 18 U.S.C. 1001, and that such willful false statements may jeopardize the validity of the application, any patent issuing thereon, or any patent to which this declaration is directed.

Full name of first inventor (given name, family name)

Larry G. Fischer

Inventor's signature *Larry G. Fischer* Date *3/13/06*
Residence Waseca, Minnesota Citizenship USA

Mailing Address
RR #4, Box 145, Waseca, Minnesota 56093

Full name of second joint inventor (given name, family name)

David S. Russell

Inventor's signature Date
Residence Minneapolis, Minnesota Citizenship USA

Mailing Address
2117 Dudley Avenue, St. Paul, Minnesota 55108

Full name of third joint inventor (given name, family name)

Philip M. Wala

Inventor's signature Date
Residence Waseca, Minnesota Citizenship USA

Mailing Address
504 14th Avenue NW, Waseca, Minnesota 56093

Additional joint inventors are named on separately numbered sheets attached hereto.

APR-05-2006(WED) 13:34 FOGG AND ASSOCIATES, LLC
Tx Date, Time MMN-10-2000(MDT) 10-10
Mar 13 06 12:39p Marian Fischer

(FAX)612 332 4731
507 835 8730
507 835 8730

P. 016/038
P. 006
p. 6

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REISSUE APPLICATION DECLARATION		ADDITIONAL INVENTOR(S) Supplemental Sheet Page 1 of 1	
Full name of fourth joint inventor (given name, family name) Charles R. Reith			
Inventor's signature	Date		
Residence Madison, GA	Citizenship USA		
Mailing Address 1470 Boones Ridge Road, Madison, GA 30650			
Full name of fifth joint inventor (given name, family name) Jeffrey O. Brennan			
Inventor's signature	Date		
Residence Waseca, MN	Citizenship USA		
Mailing Address 521-11th Avenue NW, Waseca, MN 56093			
Full name of sixth joint inventor (given name, family name)			
Inventor's signature	Date		
Residence	Citizenship		
Mailing Address			
Full name seventh joint inventor (given name, family name)			
Inventor's signature	Date		
Residence	Citizenship		
Mailing Address			
Full name of eighth joint inventor (given name, family name)			
Inventor's signature	Date		
Residence	Citizenship		
Mailing Address			
Full name of ninth joint inventor (given name, family name)			
Inventor's signature	Date		
Residence	Citizenship		
Mailing Address			

APR-05-2006(WED) 13:34
MAR-31-2006 10:35

FOGG AND ASSOCIATES, LLC
OPTICAL SOLUTIONS

(FAX)612 332 4731

P. 017/038
763 268 3301 P.04

PTO/SB/51 (10-00)

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REISSUE APPLICATION DECLARATION BY THE INVENTORS

Docket Number (optional)

100.047USR4

As a below named Inventors, we hereby declare that:
Our residences, post office addresses and citizenships are stated below next to our names.
We believe we are the original, first and joint inventors of the subject matter which is described and claimed
In patent number 5,852,651 granted December 22, 1998, and for which a
reissue patent is sought of the invention entitled

CELLULAR COMMUNICATIONS SYSTEM WITH SECTORIZATION

the specification of which

- is attached hereto.
- was filed on December 22, 2000 as reissue application number 09/747,273.
and was amended on _____.
(if applicable)

We have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

We acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56.
We verify believe the original patent to be wholly or partly inoperative or invalid, for the reasons described below. (Check all boxes that apply.)

- by reason of a defective specification or drawing.
- by reason of the patentee claiming more or less than he had the right to claim in the patent.
- by reason of other errors,

At least one error upon which reissue is based is described below: If the reissue is a broadening reissue, such must be stated with an explanation as to the nature of the broadening:

This reissue application is based on an error that the applicant and applicant's attorney failed to appreciate the full scope of the invention and thus claimed less subject matter than could have been claimed. The issued claims contain limitations that are not essential for practicing the broad teachings of the invention disclosed in the application. Thus, this reissue application is intended as a broadening reissue.

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the prior art fails to teach the combining of analog telephone signals prior to digitization of the signals for transmission over a digital transport link between a base station and remote antenna sites. (See, Notice of Allowance dated 10/17/1998 in US Serial No. 08/410,129).

However, in this related application, applicant failed to claim all the subject matter indicated by the Examiner as allowable. Thus, claims have been included in this reissue application that are directed to aspects of the digitization of signals for transmission between the base station and the remote unit.

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OPTICAL SOLUTIONS

(FAX)612 332 4731

P. 018/038
763 268 3301 P.05

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(REISSUE APPLICATION DECLARATION BY THE INVENTOR, page 2)

Docket Number (Optional)

100.047USR4

All errors corrected in this reissue application arose without any deceptive intention on the part of the applicant. As a named inventor, we hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith.

Name	Registration	Name	Registration
Fogg, David N,	35,138		
Powers, Jon M	43,888		
Lundberg, Scott V.	41,958		
Moura, Richard J.	34,883		
Kendrick, J. Patrick	53,109		

Correspondence Address: Direct all communications about the application to:

Customer Number

34208

Customer Number

Firm or
Individual Name

Jon M. Powers
Fogg and Associates, LLC

Address P.O. Box 581339

City Minneapolis

State

Minnesota

Zip 55458-1339

Country USA

Telephone

612/332-4720

Fax 612/332-4731

We hereby declare that all statements made herein of our own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine and imprisonment, or both, under 18 U.S.C. 1001, and that such willful false statements may jeopardize the validity of the application, any patent issuing thereon, or any patent to which this declaration is directed.

Full name of first inventor (given name, family name)
Larry G. Fischer

Inventor's signature

Date

Residence
Waseca, Minnesota

Citizenship
USA

Mailing Address

RR #4, Box 145, Waseca, Minnesota 56093

Full name of second joint inventor (given name, family name)
David S. Russell

Inventor's signature

Date

March 31, 2006

Residence
Minneapolis, Minnesota

Citizenship
USA

Mailing Address

2117 Dudley Avenue, St. Paul, Minnesota 55108

Full name of third joint inventor (given name, family name)
Philip M. Wala

Inventor's signature

Date

Residence
Waseca, Minnesota

Citizenship
USA

Mailing Address

504 14th Avenue NW, Waseca, Minnesota 56093

Additional joint inventors are named on separately numbered sheets attached hereto.

APR-05-2006(WED) 13:35
MAR-31-2006 10:35

FOGG AND ASSOCIATES, LLC
OPTICAL SOLUTIONS

(FAX)612 332 4731

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P. 019/038
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REISSUE APPLICATION DECLARATION		ADDITIONAL INVENTOR(S) Supplemental Sheet Page 1 of 1	
Full name of fourth joint inventor (given name, family name) <u>Charles R. Ratliff</u>			
Inventor's signature	Date		
Residence <u>Madison, GA</u>	Citizenship <u>USA</u>		
Mailing Address <u>1470 Boones Ridge Road, Madison, GA 30650</u>			
Full name of fifth joint inventor (given name, family name) <u>Jeffrey O. Brennan</u>			
Inventor's signature	Date		
Residence <u>Waseca, MN</u>	Citizenship <u>USA</u>		
Mailing Address <u>521-11th Avenue NW, Waseca, MN 56093</u>			
Full name of sixth joint inventor (given name, family name)			
Inventor's signature	Date		
Residence	Citizenship		
Mailing Address			
Full name seventh joint inventor (given name, family name)			
Inventor's signature	Date		
Residence	Citizenship		
Mailing Address			
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Inventor's signature	Date		
Residence	Citizenship		
Mailing Address			
Full name of ninth joint inventor (given name, family name)			
Inventor's signature	Date		
Residence	Citizenship		
Mailing Address			

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Docket Number (optional)

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Our residences, post office addresses and citizenships are stated below next to our names.
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in patent number 5,852,661, granted December 22, 1998, and for which a
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CELLULAR COMMUNICATIONS SYSTEM WITH SECTORIZATION

the specification of which

- is attached hereto.
- was filed on December 22, 2000 as reissue application number 09/747,273
and was amended on _____
(if applicable)

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In one example of this error, Applicant failed to fully claim the manner in which RF signals are digitized and transmitted from a base station to a remote unit in the system. This error is demonstrated by comments made by an Examiner in a related application sharing the same specification. The Examiner indicated that:

the prior art fails to teach the combining of analog telephone signals prior to digitization of the signals for transmission over a digital transport link between a base station and remote antenna sites. (See, Notice of Allowance dated 10/17/1996 in US Serial No. 08/410,129).

However, in this related application, applicant failed to claim all the subject matter indicated by the Examiner as allowable. Thus, claims have been included in this reissue application that are directed to aspects of the digitization of signals for transmission between the base station and the remote unit.

PTO/SB/51 (10-00)

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(REISSUE APPLICATION DECLARATION BY THE INVENTOR, page 2)

Docket Number (Optional)

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Powers, Jon M	43,868		
Lundberg, Scott V.	41,958		
Moura, Richard J.	34,883		
Kendrick, J. Patrick	53,109		

Correspondence Address: Direct all communications about the application to:

Customer Number

34206

Customer Number

<input checked="" type="checkbox"/> Firm or Individual Name	Jon M. Powers Fogg and Associates, LLC
Address	P.O. Box 581339

City	Minneapolis	State	Minnesota	Zip	55458-1339
Country	USA	Telephone	612/332-4720	Fax	612/332-4731

We hereby declare that all statements made herein of our own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine and imprisonment, or both, under 18 U.S.C. 1001, and that such willful false statements may jeopardize the validity of the application, any patent issuing thereon, or any patent to which this declaration is directed.

Full name of first inventor (given name, family name)
 Larry G. Fischer

Inventor's signature _____ Date _____

Residence _____ Citizenship _____
 Waseca, Minnesota USA

Mailing Address _____
 RR #4, Box 145, Waseca, Minnesota 56093

Full name of second joint inventor (given name, family name)
 David S. Russell

Inventor's signature _____ Date _____

Residence _____ Citizenship _____
 Minneapolis, Minnesota USA

Mailing Address _____
 2117 Dudley Avenue, St. Paul, Minnesota 55108

Full name of third joint inventor (given name, family name)
 Philip M. Wala

Inventor's signature _____ Date _____


Residence _____ Citizenship _____
 Waseca, Minnesota USA

Mailing Address _____
 112, 13TH Avenue NW
 504 14TH Avenue NW, Waseca, Minnesota 56093

Additional joint inventors are named on separately numbered sheets attached hereto.

PTO/SB/51 (10-00)
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Full name of fifth joint inventor (given name, family name) Jeffrey O. Brennan			
Inventor's signature	Date		
Residence Waseca, MN	Citizenship USA		
Mailing Address 521-11th Avenue NW, Waseca, MN 56093			
Full name of sixth joint inventor (given name, family name)			
Inventor's signature	Date		
Residence	Citizenship		
Mailing Address			
Full name seventh joint inventor (given name, family name)			
Inventor's signature	Date		
Residence	Citizenship		
Mailing Address			
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Inventor's signature	Date		
Residence	Citizenship		
Mailing Address			
Full name of ninth joint inventor (given name, family name)			
Inventor's signature	Date		
Residence	Citizenship		
Mailing Address			

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Docket Number (optional)

100.047USR4

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 We believe we are the original, first and joint inventors of the subject matter which is described and claimed
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 reissue patent is sought of the invention entitled _____.

CELLULAR COMMUNICATIONS SYSTEM WITH SECTORIZATION

the specification of which

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was filed on December 22, 2000 as reissue application number 09/747,273
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PTO/SB/51 (10-00)

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(REISSUE APPLICATION DECLARATION BY THE INVENTOR, page 2)

Docket Number (Optional)

100.047USR4

All errors corrected in this reissue application arose without any deceptive intention on the part of the applicant. As a named inventors, we hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith.

Name	Registration	Name	Registration
Fogg, David N.	35,138		
Powers, Jon M	43,868		
Lundberg, Scott V.	41,958		
Moura, Richard J.	34,883		
Kendrick, J. Patrick	53,109		

Correspondence Address: Direct all communications about the application to:



Customer Number

34206

Customer Number



<input checked="" type="checkbox"/>	Firm or Individual Name	Jon M. Powers
		Fogg and Associates, LLC

Address P.O. Box 581339

City	Minneapolis	State	Minnesota	Zip	55458-1339
Country	USA	Telephone	612/332-4720	Fax	612/332-4731

We hereby declare that all statements made herein of our own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine and imprisonment, or both, under 18 U.S.C. 1001, and that such willful false statements may jeopardize the validity of the application, any patent issuing thereon, or any patent to which this declaration is directed.

Full name of first inventor (given name, family name)

Larry G. Fischer

Inventor's signature

Date

Residence
Waseca, MinnesotaCitizenship
USA

Mailing Address

RR #4, Box 145, Waseca, Minnesota 56093

Full name of second joint inventor (given name, family name)

David S. Russell

Inventor's signature

Date

Residence
Minneapolis, MinnesotaCitizenship
USA

Mailing Address

2117 Dudley Avenue, St. Paul, Minnesota 55108

Full name of third joint inventor (given name, family name)

Philip M. Wala

Inventor's signature

Date

Residence
Waseca, MinnesotaCitizenship
USA

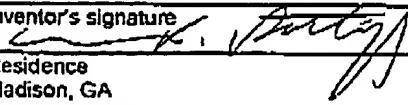
Mailing Address

504 14th Avenue NW, Waseca, Minnesota 56093 Additional joint inventors are named on separately numbered sheets attached hereto.

PTO/SB/51 (10-00)

Approved for use through 12/31/00. OMB 0651-0033
Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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REISSUE APPLICATION DECLARATION		ADDITIONAL INVENTOR(S) Supplemental Sheet	
Page 1 of 1			
Full name of fourth joint inventor (given name, family name) Charles R. Ratliff			
Inventor's signature 	Date 3/5/06		
Residence Madison, GA	Citizenship USA		
Mailing Address 1470 Boones Ridge Road, Madison, GA 30650			
Full name of fifth joint inventor (given name, family name) Jeffrey O. Brennan			
Inventor's signature	Date		
Residence Waseca, MN	Citizenship USA		
Mailing Address 521-11th Avenue NW, Waseca, MN 56093			
Full name of sixth joint inventor (given name, family name)			
Inventor's signature	Date		
Residence	Citizenship		
Mailing Address			
Full name seventh joint inventor (given name, family name)			
Inventor's signature	Date		
Residence	Citizenship		
Mailing Address			
Full name of eighth joint inventor (given name, family name)			
Inventor's signature	Date		
Residence	Citizenship		
Mailing Address			
Full name of ninth joint inventor (given name, family name)			
Inventor's signature	Date		
Residence	Citizenship		
Mailing Address			

APR-05-2006(WED) 13:36
IX Date/Time
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FOGG AND ASSOCIATES, LLC
MAR-06-2006(MON) 09:56

(FAX)612 332 4731
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10:22:34 a.m. 03-06-2006

P. 026/038
P. 004
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PTO/SB/51 (10-00)
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Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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REISSUE APPLICATION DECLARATION BY THE INVENTORS

Docket Number (optional)
100.047USR4

As a below named inventors, we hereby declare that:

Our residences, post office addresses and citizenships are stated below next to our names.
We believe we are the original, first and joint inventors of the subject matter which is described and claimed
in patent number 5,852,651, granted December 22, 1998, and for which a
reissue patent is sought of the invention entitled

CELLULAR COMMUNICATIONS SYSTEM WITH SECTORIZATION

the specification of which

is attached hereto.

was filed on December 22, 2000 as reissue application number 09/747,273

and was amended on _____

(if applicable)

We have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

We acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56. We verify before the original patent to be wholly or partly inoperative or invalid, for the reasons described below. (Check all boxes that apply.)

by reason of a defective specification or drawing.

by reason of the patentee claiming more or less than he had the right to claim in the patent.

by reason of other errors.

At least one error upon which reissue is based is described below. If the reissue is a broadening reissue, such must be stated with an explanation as to the nature of the broadening:

This reissue application is based on an error that the applicant and applicant's attorney failed to appreciate the full scope of the invention and thus claimed less subject matter than could have been claimed. The issued claims contain limitations that are not essential for practicing the broad teachings of the invention disclosed in the application. Thus, this reissue application is intended as a broadening reissue.

In one example of this error, Applicant failed to fully claim the manner in which RF signals are digitized and transmitted from a base station to a remote unit in the system. This error is demonstrated by comments made by an Examiner in a related application sharing the same specification. The Examiner indicated that

the prior art fails to teach the combining of analog telephone signals prior to digitization of the signals for transmission over a digital transport link between a base station and remote antenna sites. (See, Notice of Allowance dated 10/17/1998 in US Serial No. 08410,129).

However, in this related application, applicant failed to claim all the subject matter indicated by the Examiner as allowable. Thus, claims have been included in this reissue application that are directed to aspects of the digitization of signals for transmission between the base station and the remote unit.

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P. 027/038
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S/r

PTO/SB/51 (10-00)

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Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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(REISSUE APPLICATION DECLARATION BY THE INVENTOR, page 2)

Docket Number (Optional)
100.047USR4

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Powers, Jon M	43,888		
Lundberg, Scott V.	41,958		
Moura, Richard J.	34,883		
Kendrick, J. Patrick	53,109		

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Customer Number

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Customer Number

Firm or
Individual Name **Jon M. Powers**
Fogg and Associates, LLC

Address **P.O. Box 581339**

City **Minneapolis** State **Minnesota** Zip **55458-1339**
Country **USA** Telephone **612/332-4720** Fax **612/332-4731**

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Full name of first inventor (given name, family name)
Larry G. Fischer

Inventor's signature

Date

Residence
Waseca, Minnesota

Citizenship
USA

Mailing Address
RR #4, Box 145, Waseca, Minnesota 56093

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Inventor's signature

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Mailing Address
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Philip M. Wala

Inventor's signature

Date

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Waseca, Minnesota

Citizenship
USA

Mailing Address
504 14th Avenue NW, Waseca, Minnesota 56093

Additional joint inventors are named on separately numbered sheets attached hereto.

APR-05-2006(WED) 13:37 FOGG AND ASSOCIATES, LLC
Rx Date/Time MAR-06-2006(MON) 09:56
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(FAX)612 332 4731
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10:23:05 a.m. 03-06-2006

P. 028/038
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PTO/SB/51 (10-00)

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Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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Inventor's signature	Date		
Residence Madison, GA	Citizenship USA		
Mailing Address 1470 Boones Ridge Road, Madison, GA 30650			
Full name of fifth joint inventor (given name, family name) Jeffrey O. Brennan			
Inventor's signature 	Date 3 06 06		
Residence Waseca, MN	Citizenship USA		
Mailing Address 521-11th Avenue NW, Waseca, MN 56093			
Full name of sixth joint inventor (given name, family name)			
Inventor's signature	Date		
Residence	Citizenship		
Mailing Address			
Full name seventh joint inventor (given name, family name)			
Inventor's signature	Date		
Residence	Citizenship		
Mailing Address			
Full name of eighth joint inventor (given name, family name)			
Inventor's signature	Date		
Residence	Citizenship		
Mailing Address			
Full name of ninth joint inventor (given name, family name)			
Inventor's signature	Date		
Residence	Citizenship		
Mailing Address			

APR-05-2006(WED) 13:37 FOGG AND ASSOCIATES, LLC
Rx Date/Time MAR-13-2006(MON) 13:13
Mar 13 06 12:38p Marian Fischer

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507 835 8730

P. 029/038
P. 002
P. 2

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**SUPPLEMENTAL DECLARATION
FOR REISSUE
PATENT APPLICATION
TO CORRECT "ERRORS" STATEMENT
(37 CFR 1.175)**

Attorney Docket Number	100.047USR4
First Named Inventor	COMPLETE if known
Application Number	09/747,273
Filing Date	12/22/2000
Art Unit	2680
Examiner Name	Corsaro, Nick

I We hereby declare that:

Every error in the patent which was corrected in the present reissue application, and which is not covered by the prior oath(s) and/or declaration(s) submitted in this application, arose without any deceptive intention on the part of the applicant.

WARNING:

Petitioner/applicant is cautioned to avoid submitting personal information in documents filed in a patent application that may contribute to identity theft. Personal information such as social security numbers, bank account numbers, or credit card numbers (other than a check or credit card authorization form PTO-2038 submitted for payment purposes) is never required by the USPTO to support a petition or an application. If this type of personal information is included in documents submitted to the USPTO, petitioners/applicants should consider redacting such personal information from the documents before submitting them to the USPTO. Petitioner/applicant is advised that the record of a patent application is available to the public after publication of the application (unless a non-publication request in compliance with 37 CFR 1.213(a) is made in the application) or issuance of a patent. Furthermore, the record from an abandoned application may also be available to the public if the application is referenced in a published application or an issued patent (see 37 CFR 1.14). Checks and credit card authorization forms PTO-2038 submitted for payment purposes are not retained in the application file and therefore are not publicly available.

I We hereby declare that all statements made herein of my/our own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Name of Sole or First Inventor:	<input type="checkbox"/> A petition has been filed for this unsigned inventor
Given Name (first and middle if any)	Family Name or Surname
Larry G.	Fischer
Inventor's Signature	Date 3/6/06
Name of Second Inventor:	<input type="checkbox"/> A petition has been filed for this unsigned inventor
Given Name (first and middle if any)	Family Name or Surname
David S.	Russell
Inventor's Signature	Date

Additional inventors or legal representatives(s) are being named on the 1 supplemental sheets PTO/SB/07A or 07LR attached hereto.

This collection of information is required by 37 CFR 1.175. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 1.8 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

APR-05-2006(WED) 13:37 FOGG AND ASSOCIATES, LLC
Rx Date/Time MAR-13-2006(MON) 13:13
Mar 13 06 12:38p Marian Fischer

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P. 030/038
P. 003
P. 3

PTO/SB/02A (09-04)

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DECLARATION		ADDITIONAL INVENTOR(S) Supplemental Sheet
		Page <u>1</u> of <u>7</u>

Name of Additional Joint Inventor, if any:		<input type="checkbox"/> A petition has been filed for this unsigned inventor	
Given Name (first and middle (if any))		Family Name or Surname	
Philip M.		Wels	
Inventor's Signature		Date	
Waseca Residence: City	MN State	US Country	US Citizenship
Mailing Address			
Waseca City	MN State	Zip	US Country
Name of Additional Joint Inventor, if any:		<input type="checkbox"/> A petition has been filed for this unsigned inventor	
Given Name (first and middle (if any))		Family Name or Surname	
Charles R.		Kurtff	
Inventor's Signature		Date	
Madison Residence: City	CA State	US Country	US Citizenship
Mailing Address			
Madison City	CA State	Zip	US Country
Name of Additional Joint Inventor, if any:		<input type="checkbox"/> A petition has been filed for this unsigned inventor	
Given Name (first and middle (if any))		Family Name or Surname	
Jeffrey C.		Brennan	
Inventor's Signature		Date	
Waseca Residence: City	MN State	US Country	US Citizenship
Mailing Address			
Waseca City	MN State	Zip	US Country

The collection of information is required by 35 U.S.C. 115 and 37 CFR 1.63. The information is required to obtain or retain a benefit by the public which is to him (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 21 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-767-9199) and select option 2.

PTO/SB/513 (10-05)

Approved for use through 04/30/2007. OMB 0651-0033
U.S. Patent and Trademark Office, U.S. DEPARTMENT OF COMMERCE

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**SUPPLEMENTAL DECLARATION
FOR REISSUE
PATENT APPLICATION
TO CORRECT "ERRORS" STATEMENT
(37 CFR 1.175)**

Attorney Docket Number	100.047USR4
First Named Inventor	
COMPLETE if known	
Application Number	09/747,273
Filing Date	12/22/2000
Art Unit	2680
Examiner Name	Corsaro, Nick

I/We hereby declare that:

Every error in the patent which was corrected in the present reissue application, and which is not covered by the prior oath(s) and/or declaration(s) submitted in this application, arose without any deceptive intention on the part of the applicant.

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Name of Sole or First Inventor:	<input type="checkbox"/> A petition has been filed for this unsigned Inventor	
Given Name (first and middle [if any])	Family Name or Surname	
Larry G.	Fischer	
Inventor's Signature	Date	
Name of Second Inventor:		
<input type="checkbox"/> A petition has been filed for this unsigned inventor		
Given Name (first and middle [if any])	Family Name or Surname	
David S.	Russell	
Inventor's Signature	Date	March 31, 2006

Additional inventors or legal representatives(s) are being named on the 1 supplemental sheets PTO/SB/02A or 02LR attached hereto.

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APR-05-2006(WED) 13:38

FOGG AND ASSOCIATES, LLC

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MAR-31-2006 10:34

OPTICAL SOLUTIONS

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PTO/SB/02A (09-04)

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DECLARATION**ADDITIONAL INVENTOR(S)
Supplemental Sheet**

Page 1 of 1

Name of Additional Joint Inventor, if any:		<input type="checkbox"/> A petition has been filed for this unsigned inventor	
Given Name (first and middle (if any))		Family Name or Surname	
Philip M.		Wata	
Inventor's Signature		Date	
Waseca Residence: City	MN State	US Country	US Citizenship
Mailing Address			
Waseca City	MN State	Zip	US Country
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PTO/SB/015 (10-05)
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Examiner Name		Corsaro, Nick

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Name of Sole or First Inventor:

A petition has been filed for this unsigned inventor

Given Name (first and middle [if any])

Family Name or Surname

Larry G.

Fischor

Inventor's Signature

Date

Name of Second Inventor:

A petition has been filed for this unsigned inventor

Given Name (first and middle [if any])

Family Name or Surname

David S.

Russell

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PTO/SB/02A (09-04)
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U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

DECLARATION		ADDITIONAL INVENTOR(S) Supplemental Sheet
Page <u>1</u> of <u>1</u>		

Name of Additional Joint Inventor, if any:		<input type="checkbox"/> A petition has been filed for this unsigned inventor	
Given Name (first and middle (if any))		Family Name or Surname	
Philip M.		Wais	
Inventor's Signature			Date <u>3/21/06</u>
Waseca Residence: City	MN State	US Country	US Citizenship
<u>112 13th Avenue NW</u>			
Mailing Address			
Waseca City	MN State	56013 Zip	US Country
Name of Additional Joint Inventor, if any:		<input type="checkbox"/> A petition has been filed for this unsigned inventor	
Given Name (first and middle (if any))		Family Name or Surname	
Charles R.		Raiff	
Inventor's Signature			Date
Madison Residence: City	GA State	US Country	US Citizenship
Mailing Address			
Madison City	GA State	Zip	US Country
Name of Additional Joint Inventor, if any:		<input type="checkbox"/> A petition has been filed for this unsigned inventor	
Given Name (first and middle (if any))		Family Name or Surname	
Jeffrey O.		Brennan	
Inventor's Signature			Date
Waseca Residence: City	MN State	US Country	US Citizenship
Mailing Address			
Waseca City	MN State	Zip	US Country

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**SUPPLEMENTAL DECLARATION
FOR REISSUE
PATENT APPLICATION
TO CORRECT "ERRORS" STATEMENT
(37 CFR 1.175)**

Attorney Docket Number	100.047USR4
First Named Inventor	
COMPLETE if known	
Application Number	09/747,273
Filing Date	12/22/2000
Art Unit	2680
Examiner Name	Corsaro, Nick

I/We hereby declare that:

Every error in the patent which was corrected in the present reissue application, and which is not covered by the prior oath(s) and/or declaration(s) submitted in this application, arose without any deceptive intention on the part of the applicant.

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I/We hereby declare that all statements made herein of my/our own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Name of Sole or First Inventor:	<input type="checkbox"/> A petition has been filed for this unsigned inventor	
Given Name (first and middle [if any])	Family Name or Surname	
Larry G.	Fischer	
Inventor's Signature	Date	
Name of Second Inventor:	<input type="checkbox"/> A petition has been filed for this unsigned inventor	
Given Name (first and middle [if any])	Family Name or Surname	
David S.	Russell	
Inventor's Signature	Date	

Additional inventors or legal representatives(s) are being named on the 1 supplemental sheets PTO/SB/02A or 02LR attached hereto.

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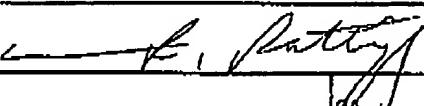
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DECLARATION**ADDITIONAL INVENTOR(S)
Supplemental Sheet**

Page 1 of 1

Name of Additional Joint Inventor, if any:		<input type="checkbox"/> A petition has been filed for this unsigned inventor	
Given Name (first and middle (if any)) Philip M.		Family Name or Surname Wala	
Inventor's Signature		Date	
Waseca Residence: City	MN State	US Country	US Citizenship
Mailing Address			
Waseca City	MN State	Zip	US Country
Name of Additional Joint Inventor, if any:		<input type="checkbox"/> A petition has been filed for this unsigned inventor	
Given Name (first and middle (if any)) Charles R.		Family Name or Surname Radloff	
Inventor's Signature 			Date 3/5/06
Madison Residence: City	GA State	US Country	US Citizenship
Mailing Address			
Madison City	GA State	Zip	US Country
Name of Additional Joint Inventor, if any:		<input type="checkbox"/> A petition has been filed for this unsigned inventor	
Given Name (first and middle (if any)) Jeffrey O.		Family Name or Surname Brennan	
Inventor's Signature			Date
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Inventor's Signature	Date
Name of Second Inventor:	<input type="checkbox"/> A petition has been filed for this unsigned inventor
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Inventor's Signature	Date

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DECLARATION		ADDITIONAL INVENTOR(S) Supplemental Sheet
Page 1 of 1		

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Given Name (first and middle (if any))		Family Name or Surname	
Philip M.		Wais	
Inventor's Signature		Date	
Waseca Residence: City	MN State	US Country	US Citizenship
Mailing Address			
Waseca City	MN State	Zip	US Country
Name of Additional Joint Inventor, if any:		<input type="checkbox"/> A petition has been filed for this unsigned inventor	
Given Name (first and middle (if any))		Family Name or Surname	
Charles R.		Rabin	
Inventor's Signature		Date	
Madison Residence: City	GA State	US Country	US Citizenship
Mailing Address			
Madison City	GA State	Zip	US Country
Name of Additional Joint Inventor, if any:		<input type="checkbox"/> A petition has been filed for this unsigned inventor	
Given Name (first and middle (if any))		Family Name or Surname	
Jeffrey O.		Bronnen	
Inventor's Signature		Date 3/6/06	
Waseca Residence: City	MN State	US Country	US Citizenship
Mailing Address			
Waseca City	MN State	Zip 56093	US Country

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